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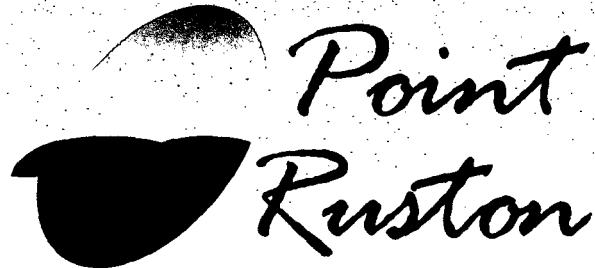
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OCT 18 2011

Environmental
Cleanup Office



5129 N. Shirley St. Suite 100, Ruston, WA 98407

October 15, 2011

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RE: Monthly Report: No. 184, September 2011
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. Point Ruston will continue to provide monthly reports to EPA for the site organized in the same manner as previous reports prepared by Asarco to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

A handwritten signature in black ink, appearing to read "Loren Cohen".

Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Chung Ki Yee - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Leslie Ann Rose - Citizens for a Healthy Bay

USEPA SF



1382175

Monthly Report 183, August 2011

Operable Unit 02

Asarco Tacoma Smelter Site

A. Actions taken to achieve compliance with the Consent Decree during the previous month.

1. Met with EPA on September 9th, 23rd, and 26th for coordination meetings.
2. Temporary Cap and Interim Permanent Cap and Site Wide Storm Water Plan submitted to EPA for review and approval.
3. Continue remedial action associated with Master Infrastructure CMP, including abandonment of existing storm water system and other underground public utilities, and construction of new public infrastructure and roads.
4. Erosion control BMP's were maintained after storm events, including replacement of silt fences and exclusion zone fence. On-going site maintenance and monitoring continues, including all requirements under the Site Wide Construction Health and Safety Plan.
5. Continued weekly site-inspection reports (see attached).
6. Maintained clean work area and road.
7. Remedial Action activities continued.
8. Training activities include the following:
 - Site Safety Orientations (Clean Zone) was held for personnel of the following companies:
 - i. Three (3) Point Ruston employees
 - ii. Nine (9) ACF West employees
 - iii. Two (2) Star Rental employees
 - iv. One (1) Transway Transport employee
 - v. One (1) Western Towboat Company employee
 - vi. One (1) JH Larye employee
 - vii. One (1) Mountain Mist employee
 - viii. One (1) Crane Consultants employee
 - ix. Two (2) Rental Fence Service employees
 - x. Two (2) MRC Construction employees
 - xi. One (1) Olson Brothers employee
 - xii. One (1) Olympic Framing employee
 - xiii. One (1) Gulf Stream employee
 - xiv. Three (3) Structural Imaging employees
 - xv. Three (3) TCB Industrial Corporation employees
 - xvi. Two (2) South Sound Sawing employees
 - xvii. One (1) Sunbelt Rental employee
 - xviii. Two (2) City of Tacoma employees
 - xix. One (1) Bruce Dees & Assoc. employee
 - xx. One (1) Walk the Waterfront employee
 - xxi. Two (2) Drain-Pro employees
 - xxii. Two (2) M. Betschart Electric employees
 - Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
 - i. Three (3) Point Ruston employees
 - ii. Three (3) TCB Corporation employees
 - iii. Seven (7) ACF West employees

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Operable Unit 02

Asarco Tacoma Smelter Site

- HAZWOPER Basic training was verified or completed by personnel of the following companies:
 - i. Seven (7) ACF West employees
 - ii. Three (3) TCB Corporation employees
 - iii. Three (3) Point Ruston employees
- HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. Two (2) CH2MHILL employees

B. Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April-October, and in December and February.

In addition to the North and South Outfalls, Point Ruston monitors an existing, upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. No samples were taken from OSW2 in September as a result of physical inaccessibility due to ongoing construction activities in the immediate vicinity. Samples were collect by Point Ruston from the outfall locations on September 6th, 12th, 19th, 26th, and October 3rd. Results from samples collected are attached. There were no exceedances.

2. Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 100 gallons per day on the LCRS.

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Operable Unit 02
Asarco Tacoma Smelter Site

3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston has suspended perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring will resume when the weather allows the site to dry out. Results for samples collected August 29th through September 23rd are attached. Results for the remainder of September are pending laboratory analysis and will be submitted with the October report. There were no exceedances.
4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring was performed on September 7th during placement of liner materials on Yacht Club Road; September 21st during site grading on Lot #1, Lot #18, Ruston Way round-a-bout at Grand Ave, and building 2A concrete cleaning; and, September 30th during BNSF stockpile placement and grading on Lot 18. Results for samples collected are attached. There were no exceedances.

C. *Work Plans and other deliverables completed and submitted during the previous month.*

1. Plans and Documents included the following:

Point Ruston Grade and Site Cap (Hydrometrics 2008) – received EPA approval

Temporary Cap Plan – received conditional EPA approval, pending Site Wide Storm Water Plan. Report of results from rain testing to be completed by submitted in mid-July. Point Ruston submitted updated plan for Interim Permanent Cap. Construction and compaction of subgrade ongoing; awaiting final EPA approval of design. Point Ruston drafting O&M Plan for the maintenance of the Interim Permanent Cap.

Site Wide Storm Water Plan -- submittal to EPA for review and approval (Hydrometrics 2011), received interim EPA approval, awaiting formal and final approval of Interim Permanent Cap Plan.

Construction Health & Safety Plan (CH&SP) – updated plan to be submitted for EPA review and approval in immediate future.

BNSF Excavation & RA Plan – received EPA approval; work completed and approved. BN has issued a Quit Claim Deed to Point Ruston and this property to become part of Ruston Way shoulder and potential street side parking.

Sequence of Development and Occupancy Plan (SDOP) – Point Ruston continuing edits and restructuring.

Ruston Way SAP – EPA approved, work completed.

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Operable Unit 02

Asarco Tacoma Smelter Site

Operations Maintenance, and Monitoring Plan (OMMP) – Point Ruston continuing edits and restructuring.

CC&Rs and HOA OMMP budget – Point Ruston continuing edits and restructuring. Removing environmental specific conditions and placing into stand-alone Environmental CC&R document.

Phase 1 Construction Management Plan (CMP) –EPA approval; edits and restructuring for re-submittal to include updated RA for site improvements; construction to continue summer 2011.

Master Infrastructure CMP – EPA approved, work ongoing.

Waterwalk CMP- Point Ruston drafting ongoing; to be submitted for phased construction and 1st phase of Waterwalk anticipated to begin construction in 2011.

2. Remedial Action included the following tasks:

- OCF construction activities:
 - Maintained leachate collection system.
 - Inspected storm drain system, vaults and cover.
- Stack Hill construction activities:
 - Maintained erosion and surface water controls; Maintained site perimeter fence and signage at the north end of Stack Hill.
 - Subgrade samplings of Stack Hill face to determine extent of cap and RA.
- Site-wide remediation/redevelopment activities:
 - Continued surface water controls
 - Maintained onsite haul roads and stockpiles
 - Maintained erosion and surface water controls; Inspected and repaired silt fence. Ruston Way closed to public traffic to accommodate MICMP construction of ROW and other public utilities. Ruston side of Tunnel filled with Baltimore St. road prism clean ballast.
 - Continued site-wide dust monitoring and control through site and access road watering, as needed.
 - Maintained air-monitoring program per CH&SP
 - August: all workdays
 - Completed shoreline armoring inspection, scheduled pre-construction meeting to review upcoming construction start.
 - Completed review of OCF maintenance logs

D. *Actions scheduled for the next six weeks.*

1. Complete BNSF QCD transaction, Point Ruston received ownership of this parcel.

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Operable Unit 02
Asarco Tacoma Smelter Site

2. Complete MICMP construction of liner on Yacht Club road, to 51st Street round about, and determined extent of cap along the public ROW. Underground Power components to begin, with joint utility trench excavations beginning immediately. MICMP completion expected Q1-2012; Tacoma and Point Ruston completing design of Waterwalk in anticipation of culmination of PSA Waterwalk property
3. Continue CH&SP air monitoring during RA activities.
4. Continue to work on plans associated with Institutional Controls for the site, including Sequence of Development and Occupancy Plan, CC&Rs, and other HOA related documents as required per the Consent Decree, including responding to EPA comments.
5. Continue to work on response to EPA comments on the Operation, Maintenance and Monitoring Plan ("OMMP")
6. Continue discussions with Metro Parks Tacoma on extension of Yacht Club Road and closure of Waterfront Drive, and offsite environmental liabilities.
7. Continue discussions with DNR regarding offsite liabilities for sediments and other aquatic land.

The following Remedial Action tasks are planned to continue:

RA Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill construction activities:

- a. Erosion controls and site maintenance
- b. Continue home construction and sales & marketing efforts

Site-wide construction activities:

- a. Continue surface water controls
- b. Maintain roads and stockpiles onsite
- c. Maintain erosion controls
- d. Construction activities for mass grading and Master Infrastructure
- e. Complete site wide grading and placement of onsite stockpiles and soils in advance of subgrade construction and compaction.

- E. *Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.*

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Asarco Tacoma Smelter Site

1. Point Ruston is continuing to work with the City of Tacoma & Town of Ruston on work associated with the Master Infrastructure CMP and Phase I CMP; LID construction is ongoing.

F. Modifications to work plans or schedules proposed to or approved by EPA.

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA approved a SOW Schedule Modification on March 24, 2011 deleting the 50% cap completion date, in exchange for an agreement by Point Ruston to complete an interim temporary cap on the site.

G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
2. Point Ruston continues negotiations, design and conclusion of the sale of Waterwalk property to the City of Tacoma.
3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.
4. Point Ruston continues discussions with DNR on cost recovery claims and other sediment cleanup issues.
5. Point Ruston continues to discuss off site RA of Metro Parks Peninsula, and Town of Ruston's tunnel.



Weekly Site Inspection Report No.

2011-0828

Week of: 8/28 – 9/3, 2011

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION	NEED REPAIR?	COMMENTS/OBSERVATIONS	
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G) F P Y (G) F P Y (G) F P Y (G) F P Y	(N) (N) (N) (N)		
Signage: Gates Perimeter Safety (Other)	(G) F P Y (G) F P Y (G) F P Y G F P Y	(N) (N) (N) N		
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	G F P Y G F P Y (G) F P Y G F P Y	N N (N) N	ROADS CLOSED SINCE JULY 13, 2011	
BMPs: Berms Waddles Silt Fence (Other)	(G) F P Y (G) F P Y (G) F P Y G F P Y	(N) (N) (N) N		
Strom drains clean: Lower Site Stack Hill	(G) F P Y (G) F P Y	(N) (N)		
Stockpiles: Envirotac II Plastic Packed Grass	(G) F P Y (G) F P Y (G) F P Y (G) F P Y	(N) (N) (N) (N)		
Dust: Traffic areas Excavation area (Other)	(G) F P Y (G) F P Y G F P Y	(N) (N) N		
Fencing: Site Perimeter Zone Separation (Other)	(G) F P Y (G) F P Y G F P Y	(N) (N) N	REPAIR & INSTALLED AS NEEDED	
Cameras: Lower Site (Other)	G F P Y G F P Y	(N) N		

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No.

2011-0828

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS	
Health & Safety Plans: Site Superintendent Construction Super. Other	G	F	P	Y	N
	G	F	P	Y	N
	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	28	N	N
Mon	29	Y	N
Tue	30	Y	N
Wed	31	Y	N
Thu	9/1	Y	N
Fri	2	Y	N
Sat	3	N	N

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	28	53°/78° WEST WIND 2 MPH / GUST 14 MPH, NO PRECIPITATION
Mon	29	57°/68° SW WIND 4 MPH / GUST 11 MPH, NO PRECIPITATION
Tue	30	55°/68° SW WIND 4 MPH / GUST 14 MPH, NO PRECIPITATION
Wed	31	51°/66° SW WIND 3 MPH / GUST 10 MPH, NO PRECIPITATION
Thu	9/1	49°/72° USW WIND 4 MPH / GUST 13 MPH, NO PRECIPITATION
Fri	2	54°/68° NORTH WIND 2 MPH / GUST 8 MPH, NO PRECIPITATION
Sat	3	53°/74° NNE WIND 3 MPH / GUST 8 MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 9/6/2011

SIGNED:

Tim R

TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2011-0904

Week of:

9/4 – 10, 2011

Inspector:

Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?	COMMENTS/OBSERVATIONS
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Signage: Gates Perimeter Safety (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	(G)	F	P	Y N	> Closed since July 13, 2011
	G	F	P	Y N	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
BMPs: Berms Waddles Silt Fence (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Strom drains clean: Lower Site Stack Hill	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Stockpiles: Envirotac II Plastic Packed Grass	(G)	F	P	Y (N)	
	G	F	P	Y N	NONE
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Dust: Traffic areas Excavation area Waste (Other) cont Rd	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G (F)	F	P	Y N	Dry (SEE NOTES)
Fencing: Site Perimeter Zone Separation (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Cameras: Lower Site (Other)	G	(F)	P	Y (N)	
	G	F	P	Y N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011-0904
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS	
Health & Safety Plans:					
Site Superintendent	G	(E)	P	(Y)	N
Construction Super.	G	(F)	P	(Y)	N
Other	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: UNABLE TO WATER SPRAY YACHT CLUB ROAD DURING INSTALLATION OF LINER. CONTROLLED/MINIMIZED DUST AS MUCH AS POSSIBLE BY SLOWING PROCESS. BREEZY CONDITIONS KEPT DUST FROM HANGING IN WORK AREA. CONDUCTED PORTABLE AIR MONITORING TO CONTAIN EXPOSURE LEVEL.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	4	N	NO RA ACTIVITY
Mon	5	N	No RA Activity (HOLIDAY)
Tue	6	V	Yacht Club Road liner (water); Hand common burrows from scrapes To R.6.
Wed	7	V (Y)	" " (assess "A" site monitoring); Stockpile "C" To Backshore + Pond
Thu	8	Y	Liner (water) (assess "B" site monitoring); Stockpile "I" To Backshore/Tunnel Area.
Fri	9	Y	Liner (water); Tunnel liner; Behind Gated.
Sat	10	N	No RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	4	51°/79°; NNE WIND 1 MPH/GUST 8 MPH, NO PRECIPITATION
Mon	5	53°/76°; NORTH WIND 2 MPH/GUST 8 MPH, NO PRECIPITATION
Tue	6	52°/76°; NNE WIND 1 MPH/GUST 8 MPH, NO PRECIPITATION
Wed	7	54°/77°; NNE WIND 2 MPH/GUST 11 MPH, NO PRECIPITATION
Thu	8	56°/80°; NNE WIND 1 MPH/GUST 9 MPH, NO PRECIPITATION
Fri	9	56°/79°; NORTH WIND 1 MPH/GUST 11 MPH, NO PRECIPITATION
Sat	10	55°/79°; NNE WIND 1 MPH/GUST 10 MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 9/12/2011

SIGNED:

Tim R.

TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2011-0911

Week of: 9/11 – 17, 2011 **Inspector:** Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?	COMMENTS/OBSERVATIONS
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G) F P	Y	(N)	Y	9/13 REMOVED CUL - REMOTE
	(G) F P	Y	(N)	Y	Raised Hinges To Prevent Dragging
	(G) F P	Y	(N)	Y	
	(G) F P	Y	(N)	Y	
Signage: Gates Perimeter Safety (Other)	(G) F P	Y	(N)	Y	< (SEE NOTES)
	(G) F P	Y	(N)	Y	
	(G) F P	Y	(N)	Y	
	G F P	Y	N	Y	
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	G F P	Y	N	Y	Roads Closed Since July 12, 2011
	G F P	Y	N	Y	
	G F P	Y	N	Y	
	G F P	Y	N	Y	
BMPs: Berms Waddles Silt Fence (Other)	(G) F P	Y	(N)	Y	
	(G) F P	Y	(N)	Y	
	(G) F P	Y	(N)	Y	
	G F P	Y	N	Y	
Strom drains clean: Lower Site Stack Hill	(G) F P	Y	(N)	Y	
	(G) F P	Y	(N)	Y	
Stockpiles: Envirotac II Plastic Packed Grass	G F P	Y	N	Y	NONE
	G F P	Y	N	Y	NONE
	(G) F P	Y	(N)	Y	
	(G) F P	Y	(N)	Y	
Dust: Traffic areas Excavation area (Other)	(G) F P	Y	(N)	Y	
	(G) F P	Y	(N)	Y	
	G (F) P	Y	(N)	Y	LINER AREA DRY TO DURING INSTALLATION
Fencing: Site Perimeter Zone Separation (Other)	G F P	Y	N	Y	< (SEE NOTES)
	(G) F P	Y	(N)	Y	Zone Separation Gets Constant Attention
	G F P	Y	N	Y	
Cameras: Lower Site (Other)	G (F) P	Y	(N)	Y	
	G F P	Y	N	Y	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011-0911
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS
Health & Safety Plans:				LOREN WORKING ON FINAL DRAFT
Site Superintendent	G	F	P	(Y) N
Construction Super.	G	F	P	(Y) N
Other	G	F	P	Y N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: 9/16/11 CAUGHT Two Surveyors ON OCF POUNDING REBAR IN TO COVER (COMMERCIAL WORK). SAID THEY FOUND FENCE OPEN + "NO TRESPASS" SIGN LYING ON GROUND NEAR BY. ESCORTED THEM FROM PROPERTY + SECURED FENCE. SAME COMPANY WAS CAUGHT DOING SAME ON 10/12/07 (DIFFERENT PARCELS).

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 11	N	N	NO RA ACTIVITY (STOCKPILE DA + S TO POND)
Mon 12	Y	N	BARGE #31 UNLOADING; START YACHT CLUB PULLEY INSTALL.
Tue 13	Y	N	BARGE #32 UNLOADING; STOCKPILE B TO POND; COVER LID ON POND
Wed 14	Y	N	BARGE #33 UNLOADING TO STOCKPILE; STOCKPILE "NPA" TO BALTIMORE
Thu 15	Y	N	Stockpile "NPA" TO BALTIMORE / TUNNEL FILL AREA. GRADING 5&6
Fri 16	Y	N	INSTALNG FILTERS; "NPA" HAULED TO BART. / TUNNEL AREA; GRAVEL PONDS
Sat 17	N	N	NO RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 11	57/81:WNW	WIND 2 MPH/GUST 12 MPH, NO PRECIPITATION
Mon 12	57/67:SW	WIND 4 MPH/GUST 10 MPH, NO PRECIPITATION
Tue 13	57/64:SW	WIND 2 MPH/GUST 6 MPH, NO PRECIPITATION
Wed 14	58/66:WNW	WIND 1 MPH/GUST 9 MPH, NO PRECIPITATION
Thu 15	55/63:SSW	WIND 5 MPH/GUST 15 MPH, NO PRECIPITATION
Fri 16	58/63:SW	WIND 2 MPH/GUST 9 MPH, NO PRECIPITATION
Sat 17	52/61:SSW	WIND 4 MPH/GUST 13 MPH, PRECIP. @ .18" (noon & EVE)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 9/19/2011

SIGNED:

TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2011-0918

Week of:

9/18 – 24, 2011

Inspector:

Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?	COMMENTS/OBSERVATIONS
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Signage: Gates Perimeter Safety (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	G	F	P	Y N	CLOSED SINCE JULY 13, 2011
	G	F	P	Y N	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
BMPs: Berms Waddles Silt Fence (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Strom drains clean: Lower Site Stack Hill	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Stockpiles: Envirotac II Plastic Packed Grass	G	F	P	Y N	GONE (None)
	G	F	P	Y N	NONE
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Dust: Traffic areas Excavation area (Other)	(G)	F	P	Y (N)	WATER SPRAY AS NEEDED
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Fencing: Site Perimeter Zone Separation (Other)	(G)	F	P	Y (N)	MRC FENCE PICKED UP AT CREDIT UNION
	(G)	F	P	Y (N)	
	G	F	P	Y N	(SEE NOTES!)
Cameras: Lower Site (Other)	G	(F)	P	Y (N)	
	G	F	P	Y N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No.

2011-0918

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS
Health & Safety Plans:				LOREN WORKING ON FINAL DRAFT
Site Superintendent	G	F	P	Y N
Construction Super.	G	F	P	Y N
Other	G	F	P	Y N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: *9/14/11*
 MRC's FENCE WAS PICKED UP AT CREDIT UNION AND LOWER SITE EQUIPMENT AREA. REPLACED 12 PANELS AT CREDIT UNION WITH OUR OWN PANELS TO KEEP PERIMETER SECURE.
 NOTED: CONTRACTOR IN RUSTON TRUCKING DIRT ON NUMEROUS STREETS IN RUSTON FROM INDEPENDANT SEWER PROJECT. SOME COULD ENTER N. OUTFLW DRAINAGE (FROM 51ST ST.)

Air Monitoring:

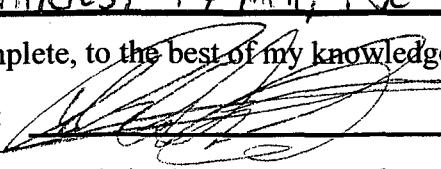
Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	18	N	NO RA ACTIVITY
Mon	19	Y	OLSON GRADING LOT #5 + INSTALLING FILTERS
Tue	20	Y	OLSON GRADING LOT #1. Hauling Site Soils To Cowichan Pond
Wed	21	Y	Dozer GRADING LOT #1. EXCAVATOR MOVING SOIL LOT #18. (WORK ON P.W. REAL ESTATE)
Thu	22	Y	Dozer GRADING ON LOT #8. CREW EXCAVATING OJ REAL ESTATE AT TUNNEL CYPRESS TO GRAND AVE
Fri	23	Y	EXCAVATE CLEAR AREA. FROM TUNNEL CYPRESS TO GRAND AVE ROUNDABOUT. Fill & compact.
Sat	24	N	ND RA ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	18	52°/65°; SSW WIND 3 MPH/GUST 12 MPH, PRECIP. 0.2" (SCATTERED)
Mon	19	54°/67°; NNE WIND 2 MPH/GUST 13 MPH, NO PRECIPITATION
Tue	20	48°/77°; NORTH WIND 1 MPH/GUST 6 MPH, NO PRECIPITATION
Wed	21	58°/74°; SW WIND 2 MPH/GUST 7 MPH, NO PRECIPITATION
Thu	22	61°/75°; SW WIND 3 MPH/GUST 14 MPH, PRECIP. 0.01" (MORNING)
Fri	23	63°/78°; SW WIND 4 MPH/GUST 10 MPH, NO PRECIPITATION
Sat	24	61°/73°; SW WIND 3 MPH/GUST 10 MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 9/26/2011

SIGNED: *Tan R*

TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2011-0925

Week of: 9/25 – 10/1, 2011 **Inspector:** Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS	
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Signage: Gates Perimeter Safety (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	G	F	P	Y	N
	G	F	P	Y	N
	(G)	F	P	Y	(N)
	G	F	P	Y	N
BMPs: Berms Waddles Silt Fence (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Strom drains clean: Lower Site Stack Hill	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Stockpiles: Envirotac II Plastic Packed Grass	G	F	P	Y	N
	G	F	P	Y	N
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Dust: Traffic areas Excavation area (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Fencing: Site Perimeter Zone Separation (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Cameras: Lower Site (Other)	G	(F)	P	Y	(N)
	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No.

2011-0925

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS	
Health & Safety Plans:					
Site Superintendent	G	F	P	Y	N
Construction Super.	G	F	P	Y	N
Other	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes:

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	25	N	N
Mon	26	Y	N
Tue	27	Y	N
Wed	28	Y	N
Thu	29	Y	N
Fri	30	Y	(Y)
Sat	10/1	N	N

NO RA ACTIVITY

Stockpile "M2" Placed At Cooling Pond; C.B. Hauled To Ruston Wty

GRADING FOR CONTINUATION OF LINER INSTALL. SITE MAINTENANCE.

PLACE C.B. IMPORTS OVER LINER & MARKER ; OLSON WORKED LATE

LINER/MARKER INSTALL ON YARD GUB ; STOCKPILE "O" TO POND.

PLACING BN STOCKPILE ; OLSON WORKING ON REALIGNMENT AT TUNNEL

NO RA ACTIVITY

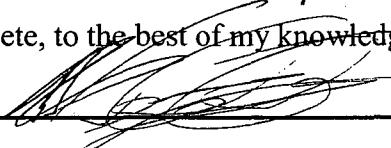
WEATHER:

Day of Week	LOW/HIGH	Summary of Weather Conditions
Sun	25	55°/64°SSW WIND 6MPH/GUST 11MPH, PRECIP. 0.13" (MORNING)
Mon	26	52°/63°SSW WIND 3MPH/GUST 15MPH, PRECIP. 0.6" (MORN - AFTERNOON)
Tue	27	53°/63°SSW WIND 6MPH/GUST 11 MPH, PRECIP. 0.01" (SCATTERED)
Wed	28	47°/61°NNE WIND 3MPH/GUST 10 MPH, NO PRECIPITATION
Thu	29	47°/75°NNE WIND 1MPH/GUST 7MPH, NO PRECIPITATION
Fri	30	52°/63°NNW WIND 3MPH/GUST 11 MPH, PRECIP. 0.01" (AFTERNOON)
Sat	10/1	50°/68°SW WIND 2MPH/GUST 13MPH, PRECIP. 0.01" (AFTERNOON)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 10/3/2011

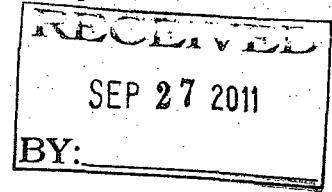
SIGNED:



TITLE: Construction Oversight / Health & Safety Officer

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09/22/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 09/08/2011
Spectra Project: 2011090127

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8495996	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	08/29/2011
8495996	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	08/29/2011
8495998	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	08/29/2011
8495998	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	08/29/2011
8495997	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	08/29/2011
8495997	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	08/29/2011
8495995	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	08/30/2011
8495995	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	08/30/2011
8495994	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	08/30/2011
8495994	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	08/30/2011
8495993	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	08/30/2011
8495993	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	08/30/2011
8495992	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	08/31/2011
8495992	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	08/31/2011
8495991	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	08/31/2011
8495991	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	08/31/2011

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Steve Hibbs, Laboratory Manager

a8/scj

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09/22/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 09/08/2011
Spectra Project: 2011090127

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8495990	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	08/31/2011
8495990	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	08/31/2011
8495988	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/01/2011
8495988	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/01/2011
8495987	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/01/2011
8495987	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/01/2011
8495986	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/01/2011
8495986	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/01/2011
8495985	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/02/2011
8495985	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/02/2011
8495984	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/02/2011
8495984	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/02/2011
8495983	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/02/2011
8495983	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/02/2011
8495989	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	08/31/2011
8495989	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	08/31/2011

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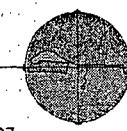
Steve Hibbs, Laboratory Manager
a8/scj

POINT RUSTON

5219 N. Shirley St., Suite 100
Phone: 253-752-2185
Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

1201090727



PROJ. NO	PROJECT NAME					NO. OF CONTAINERS	REMARKS
AIR MONITORING	POINT RUSTON, LLC (HI-VOL)						
SAMPLERS: (Signature)							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
8/31/11	CONTROL		X		8495989	1 X	
9/8/11	Hi-VOLUME SAMPLER LOG					1 PAGE	C.F.M. DATA FOR LISTED FILTERS
THANK YOU							
Relinquished (Signature)		Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Others	
		9/9/11 @ 0756	Pd/Rc		SPECTRA	DROP OFF	
Relinquished (Signature)		Date/Time	Received by: (Signature)		Remarks		
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed:	
						<input type="checkbox"/> Parameter List with DTLs	
						<input type="checkbox"/> Cover Letter	
Split Samples: [] Accepted [] Declined							
Signature							

**POINT
RUSTON**

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

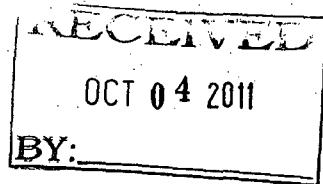
CHAIN OF CUSTODY RECORD

2011090127

PROJ. NO	PROJECT NAME				NO. OF CONTAINERS	REMARKS
AIR MONITORING	POINT RUSTON, LLC (HI-VOL)					
SAMPLERS:	(Signature)					
DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER	
8/29/11	SG		X		8495996	
8/29/11	OCF-VI		X		8495998	
8/29/11	OCF-NW		X		8495997	
8/30/11	SG		X		8495995	
8/30/11	OCF-VI		X		8495994	
8/30/11	OCF-NW		X		8495993	
8/31/11	SG		X		8495992	
8/31/11	OCF-VI		X		8495991	
8/31/11	OCF-NW		X		8495990	
9/1/11	SG		X		8495988	
9/1/11	OCF-VI		X		8495987	
9/1/11	OCF-NW		X		8495986	
9/2/11	SG		X		8495985	
9/2/11	OCF-VI		X		8495984	
9/2/11	OCF-NW		X		8495983	
Relinquished (Signature)		Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS, or Other
<i>John R.</i>		9/1/11 @ 11:56	<i>John R.</i>		SPECTRA	DRDOOR
Relinquished (Signature)		Date/Time	Received by: (Signature)		Remarks	
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed:
						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples: []Accepted []Declined						
Signature						

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10/03/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (HI-VOL)
Date Received: 09/12/2011
Spectra Project: 2011090194

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8495982	1	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/06/2011
8495982	1	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/06/2011
8495981	2	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/06/2011
8495981	2	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/06/2011
8495980	3	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/06/2011
8495980	3	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/06/2011
8495979	4	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/07/2011
8495979	4	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/07/2011
8495978	5	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/07/2011
8495978	5	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/07/2011
8495977	6	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/07/2011
8495977	6	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/07/2011
8495976	7	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/08/2011
8495976	7	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/08/2011
8495975	8	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/08/2011
8495975	8	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/08/2011

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Steve Hibbs, Laboratory Manager
a8/scj

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10/03/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (HI-VOL)
Date Received: 09/12/2011
Spectra Project: 2011090194

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8495974	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/08/2011
8495974	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/08/2011
8495973	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/09/2011
8495973	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/09/2011
8495972	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/09/2011
8495972	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/09/2011
8495971	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/09/2011
8495971	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/09/2011
8495970	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/09/2011
8495970	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/09/2011

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj

**POINT
RUSTON**

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Phone: 253-752-2185 Fax: 253-752-7083

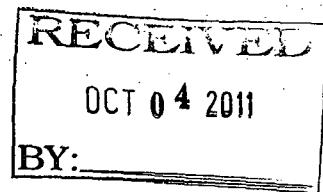
CHAIN OF CUSTODY RECORD

2011090194

PROJ. NO	PROJECT NAME		NO. OF CONTAINERS	REMARKS				
AIR MONITORING	POINT RUSTON, LLC HI-VOLS				AS, Pb			
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER			
9/6/11	SG		X		8495982	1 X		
9/6/11	OCF-VI		X		8495981	1 X		
9/6/11	OCF-NN		X		8495980	1 X		
9/7/11	SG		X		8495979	1 X		
9/7/11	OCF-VI		X		8495978	1 X		
9/7/11	OCF-NW		X		8495977	1 X		
9/8/11	SG		X		8495976	1 X		
9/8/11	OCF-VI		X		8495975	1 X		
9/8/11	OCF-NW		X		8495974	1 X		
9/9/11	SG		X		8495973	1 X		
9/9/11	OCF-VI		X		8495973	1 X		
9/9/11	OCF-NW		X		8495971	1 X		
9/9/11	CONTROL		X		8495970	1 X		
9/12/11				HI-VOLUME SAMPLER LOG		1 PAGE	CF.M DATA FOR LISTED FILTERS	
Relinquished (Signature)			Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other	
<i>[Signature]</i>			9/12/11 (H) 1304	<i>R. D. [Signature]</i>		SPECTRA	DROP OFF	
Relinquished (Signature)			Date/Time	Received by: (Signature)	Remarks			
Relinquished (Signature)			Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:		
						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter		
Split Samples: [] Accepted [] Declined _____ Signature								

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10/03/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 09/20/2011
Spectra Project: 2011090379

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8495969	1	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/12/2011
8495969	1	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/12/2011
8495968	2	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/12/2011
8495968	2	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/12/2011
8495967	3	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/12/2011
8495967	3	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/12/2011
8495966	4	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/13/2011
8495966	4	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/13/2011
8495965	5	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/13/2011
8495965	5	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/13/2011
8495964	6	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/13/2011
8495964	6	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/13/2011
8495963	7	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/14/2011
8495963	7	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/14/2011
8495962	8	Arsenic	< 0.05	µg/m³	SW846 6010B	Filter	09/14/2011
8495962	8	Lead	< 0.05	µg/m³	SW846 6010B	Filter	09/14/2011

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj

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10/03/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 09/20/2011
Spectra Project: 2011090379

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8495961	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/14/2011
8495961	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/14/2011
8495960	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/15/2011
8495960	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/15/2011
8495959	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/15/2011
8495959	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/15/2011
8495958	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/15/2011
8495958	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/15/2011
8495957	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/16/2011
8495957	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/16/2011
8495956	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/16/2011
8495956	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/16/2011
8495955	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/16/2011
8495955	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/16/2011

SPECTRA LABORATORIES

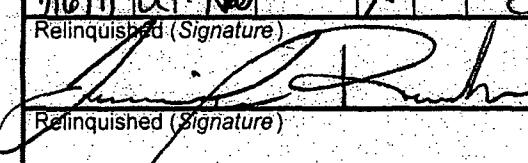
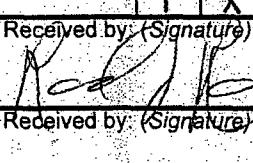
Steve Hibbs, Laboratory Manager
a8/scj

**POINT
RUSTON**

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

2011090379

PROJ. NO.	PROJECT NAME					NO. OF CONTAINERS	REMARKS	
AIR MONITORING	POINT RUSTON, LLC							AS, Pb
SAMPLERS (Signature)								
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER			
9/12/11	SG		X		8495969	1	X	
9/12/11	OCF-VI		X		8495968	1	X	PLEASE EMAIL RESULTS TO: Tim@POINTRUSTON.com
9/12/11	OCF-NW		X		8495967	1	X	
9/13/11	SG		X		8495966	1	X	
9/13/11	OCF-VI		X		8495965	1	X	THANK YOU
9/13/11	OCF-NW		X		8495964	1	X	
9/14/11	SG		X		8495963	1	X	
9/14/11	OCF-VI		X		8495962	1	X	9/20/11-
9/14/11	OCF-NW		X		8495961	1	X	HI-VOLUME
9/15/11	SG		X		8495960	1	X	SAMPLER LOG
9/15/11	OCF-VI		X		8495959	1	X	1-PAGE
9/15/11	OCF-NW		X		8495958	1	X	
9/16/11	SG		X		8495957	1	X	
9/16/11	OCF-VI		X		8495956	1	X	
9/16/11	OCF-NW		X		8495955	1	X	
Relinquished (Signature)			Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other	
			9/20/11 @ 0956			SPECTRA	Drop Off	
Relinquished (Signature)			Date/Time	Received by: (Signature)		Remarks		
Relinquished (Signature)			Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed:	
							<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples: [] Accepted [] Declined								
Signature								

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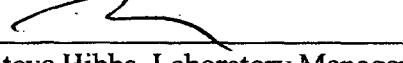
10/14/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 09/26/2011
Spectra Project: 2011090557

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8495954	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/19/2011
8495954	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/19/2011
8495953	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/19/2011
8495953	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/19/2011
8495952	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/19/2011
8495952	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/19/2011
8495950	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/20/2011
8495950	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/20/2011
8495949	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/20/2011
8495949	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/20/2011
8495948	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/20/2011
8495948	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/20/2011
8495947	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/21/2011
8495947	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/21/2011
8495946	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/21/2011
8495946	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/21/2011

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager
a8/scj

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10/14/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 09/26/2011
Spectra Project: 2011090557

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8495945	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/21/2011
8495945	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/21/2011
8495944	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/22/2011
8495944	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/22/2011
8495943	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/22/2011
8495943	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/22/2011
8495942	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/22/2011
8495942	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/22/2011
8495941	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/23/2011
8495941	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/23/2011
8495940	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/23/2011
8495940	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/23/2011
8495939	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/23/2011
8495939	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/23/2011
8495951	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	09/20/2011
8495951	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	09/20/2011

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**

 5219 N. Shirley St., Suite 100
 Tacoma, WA 98407
 Phone: 253-752-2185
 Fax: 253-752-7083

2011090557

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS		
AIR MONITORING		POINT RUSTON, LLC				Hi-VOLS	AS, Pb
SAMPLERS: (Signature)	<i>John R.</i>						
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
9/19/11	SG		X		8495954	1 X	
9/19/11	OCF-VI		X		8495953	1 X	
9/19/11	OCF-NW		X		8495952	1 X	PLEASE EMAIL RESULTS
9/20/11	SG		X		8495950	1 X	TO: Tim <i>(at) PointRuston.com</i>
9/20/11	OCF-VI		X		8495949	1 X	
9/20/11	OCF-NW		X		8495948	1 X	
9/21/11	SG		X		8495947	1 X	
9/21/11	OCF-VI		X		8495946	1 X	
9/21/11	OCF-NW		X		8495945	1 X	
9/22/11	SG		X		8495944	1 X	<i>THANK YOU</i>
9/22/11	OCF-VI		X		8495943	1 X	
9/22/11	OCF-NW		X		8495942	1 X	
9/23/11	SG		X		8495941	1 X	
9/23/11	OCF-VI		X		8495940	1 X	
9/23/11	OCF-NW		X		8495939	1 X	
Relinquished (Signature)		Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other <u>DROP OFF</u>	
<i>B. Ruston</i>		9/26/11 12:52	<i>Stacey</i>		SPECTRA	Air Bill #	
Relinquished (Signature)		Date/Time	Received by: (Signature)		Remarks		
<i>B. Ruston</i>		9/26/11	<i>Marie Holt</i>				
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed:	
			<i>Marie Holt</i>		1:40 9/26/11	<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____							
Signature _____							

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**

 5219 N. Shirley St., Suite 100 Tacoma, WA 98407
 Phone: 253-752-2185 Fax: 253-752-7083

2011090557

PROJ. NO	PROJECT NAME					NO. OF CONTAINERS	REMARKS
AIR MONITORING	POINT RUSTON, LLC HI-VOLS						
SAMPLERS: (Signature)							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
9/20/11	Control		x		8495951	1	x
9/20/11					Hi-VOLUME SAMPLER LOG	1 PAGE	
PLEASE Email RESULTS TO Tim2@POINTRUSTON.com							
THANK YOU							
Relinquished (Signature)	Date/Time		Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other DROP OFF Air Bill #	
<i>Barker</i>	9/20/11 12:53		<i>John</i>		SPECTRA		
Relinquished (Signature)	Date/Time		Received by: (Signature)		Remarks		
<i>Barker</i>	9/20/11		<i>John</i>				
Relinquished (Signature)	Date/Time		Received for Laboratory by: (Signature)		Date/Time	Enclosed:	
			<i>Maree Holt</i>		9-26-11 1:40 pm	<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples: <input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Declined							
Signature							

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SEP 13 2011

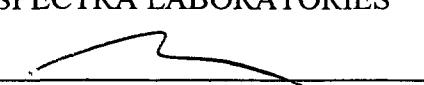
09/09/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Yacht Club Rd
Sample Matrix: Air Cassette
Date Sampled: 09/07/2011
Date Received: 09/08/2011
Spectra Project: 2011090126
Rush

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
090711-123	1	Arsenic	0.066	µg/m ³	SW846 6020A
090711-123	1	Lead	0.13	µg/m ³	SW846 6020A
090711-646	2	Arsenic	< 0.003	µg/m ³	SW846 6020A
090711-646	2	Lead	0.026	µg/m ³	SW846 6020A
090711-181	3	Arsenic	0.065	µg/m ³	SW846 6020A
090711-181	3	Lead	0.14	µg/m ³	SW846 6020A
090711-719	4	Arsenic	0.028	µg/m ³	SW846 6020A
090711-719	4	Lead	0.066	µg/m ³	SW846 6020A

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager

a7/sej

Page 1 of 1

**POINT
RUSTON**

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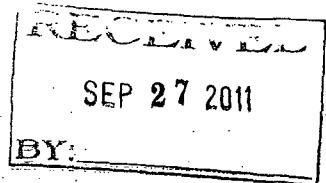
CHAIN OF CUSTODY RECORD

2011090126

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS
YACHT CLUB RD		LINER			
SAMPLERS: (Signature)					
DATE	STA #	TIME	COMP GRAB	SAMPLE NUMBER	
9/7/11	[REDACTED]		X	090711-123	1 X 1µg/FILTER PRECISION
9/7/11	[REDACTED]		X	090711-646	1 X
9/7/11	[REDACTED]		X	090711-18	1 X
9/7/11	[REDACTED]		X	090711-719	1 X
SAMPLER LOG INFO SHEET 2 PAGE -					
<p style="text-align: center;">RUSH 24 HR</p>					
<p style="text-align: right;">PLEASE EMAIL RESULTS ASAP TO: Tim@PointRuston.com</p>					
Relinquished (Signature)		Date/Time	Received by: (Signature)		Lab
<i>John Ruck</i>		9/9/11 00:09:55	<i>Rodger</i>		SPECTRA
Shipped via: FedEx, UPS or Other		DROP OFF			
Air Bill #					
Relinquished (Signature)		Date/Time	Received by: (Signature)		Remarks
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time
					Enclosed:
					<input type="checkbox"/> Parameter List with DTLs
					<input type="checkbox"/> Cover Letter
Split Samples: []Accepted []Declined					
Signature					



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09/23/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Ruston Way (Clean) Lot 1&18
Sample Matrix: Air Cassette
Date Sampled: 09/21/2011
Date Received: 09/22/2011
Spectra Project: 2011090461
Rush

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
092111-181	1	Arsenic	< 0.003	µg/m3	SW846 6020A
092111-181	1	Lead	< 0.005	µg/m3	SW846 6020A
092111-123	2	Arsenic	< 0.005	µg/m3	SW846 6020A
092111-123	2	Lead	0.030	µg/m3	SW846 6020A
092111-646	3	Arsenic	< 0.005	µg/m3	SW846 6020A
092111-646	3	Lead	0.036	µg/m3	SW846 6020A

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a7/scj

CHAIN OF CUSTODY RECORD

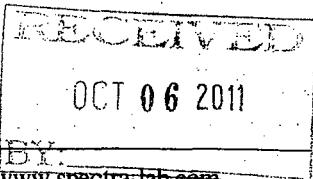
POINT
RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO POINT RUSTON	PROJECT NAME MISC.	RUSTON WAY (CLEAN) LOT 1B18 , BUILDING 2A	NO. OF CONTAINERS <i>AS, Pb</i>	REMARKS <i>RUST</i> <i>24 HR</i>			
SAMPLERS: (Signature) <i>J. L. Rich</i>							
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
9/21/11			X		092111-181	1 X	
9/21/11			X		092111-719	1 X VVOID	1ug FILTER PRECISION
9/21/11			X		092111-123	1 X	
9/21/11			X		092111-10410	1 X	
<i>9/21/11 - SAMPLER LOG INFO SHEET</i>						2 PAGE	<i>RUST</i> <i>24 HR</i>
							<i>PLEASE Email RESULTS ASAP To: Tim2@POINT RUSTON.com</i>
Relinquished (Signature) <i>J. L. Rich</i>	Date/Time 9/22/11	Received by: (Signature) <i>M. M.</i>	Lab SPECTRA	Shipped via: FedEx, UPS or Other DROP OFF			
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks				
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter			
Split Samples: []Accepted []Declined				Signature			

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10/04/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Misc. Lot 1 & 18
Client ID: 092111-719
Sample Matrix: Air Cassette Filter
Date Sampled: 09/21/2011
Date Received: 09/26/2011
Spectra Project: 2011090556
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.10	µg/m3	SW846 6020A
Lead	0.14	µg/m3	SW846 6020A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a6/scj

Page 1 of 1

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October 4, 2011

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2011090556
Applies to Spectra #'s 1

QUALITY CONTROL RESULTS

ICP-MS Metals - SW846 6020A - Air Filter

Method Blank

Date Digested: 10/4/2011 Date Analyzed: 10/4/2011

Element	CAS #	Blank Result
Arsenic	7440-38-2	< 0.5
Lead	7439-92-1	< 0.5

Blank Spike (LCS)

Date Digested: 10/4/2011 Date Analyzed: 10/4/2011

Element	Spike	LCS	LCS
	Added	Conc.	%Rec
Arsenic	100.0	102.00	102.0
Lead	100.0	99.68	99.7

LCS Recovery limits 80-120%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 10/4/2011 Date Analyzed: 10/4/2011

Sample Spiked Blank

Element	Sample	Spike	MS	MS	MSD	MSD	RPD
	Conc.	Conc.	Conc.	%Rec	Conc	%Rec	
Arsenic	0.00	100.0	101.90	101.9	101.90	101.9	0.0
Lead	0.00	100.0	99.51	99.5	99.13	99.1	0.4

Comment: Blank spikes applied due to insufficient sample. (1 filter)

Recovery Limits 75-125%

RPD Limit 20

SPECTRA LABORATORIES

Steven G. Hibbs
Laboratory Manager

CHAIN OF CUSTODY RECORD

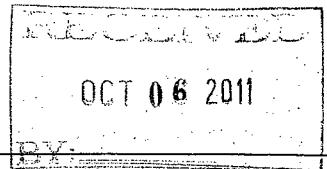
POINT **RUSTON**

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Phone: 253-752-2185 Fax: 253-752-7083



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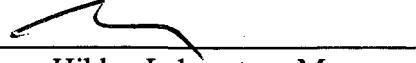
10/04/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Stock Pile Placement
Sample Matrix: Air Cassette
Date Sampled: 09/30/2011
Date Received: 10/03/2011
Spectra Project: 2011100061
Rush

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
093011-646	1	Arsenic	0.60	µg/m ³	SW846 6020A
093011-646	1	Lead	0.36	µg/m ³	SW846 6020A
093011-123	2	Arsenic	0.22	µg/m ³	SW846 6020A
093011-123	2	Lead	0.15	µg/m ³	SW846 6020A
093011-181	3	Arsenic	0.082	µg/m ³	SW846 6020A
093011-181	3	Lead	0.072	µg/m ³	SW846 6020A
093011-719	4	Arsenic	0.22	µg/m ³	SW846 6020A
093011-719	4	Lead	0.13	µg/m ³	SW846 6020A

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager

a7/scj

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October 4, 2011

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2011100061
Applies to Spectra #'s 1 thru 4

QUALITY CONTROL RESULTS

ICP-MS Metals - SW846 6020A - Air Filter

Method Blank

Date Digested: 10/4/2011 Date Analyzed: 10/4/2011

Element	CAS #	Blank Result
Arsenic	7440-38-2	< 0.5
Lead	7439-92-1	< 0.5

Blank Spike (LCS)

Date Digested: 10/4/2011 Date Analyzed: 10/4/2011

Element	Spike	LCS	LCS
	Added	Conc.	%Rec
Arsenic	100.0	102.00	102.0
Lead	100.0	99.68	99.7

LCS Recovery limits 80-120%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 10/4/2011 Date Analyzed: 10/4/2011

Sample Spiked Blank

Element	Sample	Spike	MS	MS	MSD	MSD	RPD
	Conc.	Conc.	Conc.	%Rec	Conc	%Rec	
Arsenic	0.00	100.0	101.90	101.9	101.90	101.9	0.0
Lead	0.00	100.0	99.51	99.5	99.13	99.1	0.4

Comment: Blank spikes applied due to insufficient sample, (1 filter)

Recovery Limits 75-125%

RPD Limit 20

SPECTRA LABORATORIES

Steven G. Hibbs
Laboratory Manager

CHAIN OF CUSTODY RECORD

POINT
RUSTON

5219 N. Shirley St., Suite 100
Phone: 253-752-2185
Fax: 253-752-7083

2011/10/00 (021)

PROJ. NO BNSF	PROJECT NAME STOCK PILE PLACEMENT				NO. OF CONTAINERS <i>AS + Pb</i>	RUSH	
SAMPLERS: (Signature) <i>James R. Ruston</i>	STA # TIME COMP GRAB						
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		REMARKS <i>24 HR</i>
9/30/11			X		093011-6460	1 X	<i>1µg/FILTER PRECISION</i>
9/30/11			X		093011-123	1 X	
9/30/11			X		093011-181	1 X	
9/30/11			X		093011-719	1 X	
SAMPLER LOG INFO SHEET					2 PAGES		
RUSH 24 Hour							
PLEASE Email RESULTS To: <i>Tina@POINT RUSTON.com</i>							
Relinquished (Signature) <i>James R. Ruston</i>		Date/Time 10/3/11 @ 1555	Received by (Signature) <i>P. D. P.</i>		Lab SPECTRA	Shipped via: FedEx, UPS or Other Drop off Air Bill #	
Relinquished (Signature)		Date/Time	Received by (Signature)		Remarks		
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
						Split Samples: [] Accepted [] Declined _____	

Table 1. Summary of September 2011 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.061	12.24%	0.016	3.14%	0.010	2.03%
OSW2	0.000	0.00%	0.000	0.00%	0.000	0.00%
North Outfall	0.018	3.52%	0.006	1.18%	0.004	0.83%

* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

OCT 12 2011

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10/10/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples (September)
Client ID: TSM0911406
Sample Matrix: Water
Date Sampled: 09/06/2011
Date Received: 10/03/2011
Spectra Project: 2011100068
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.016	mg/L	EPA 200.8
Copper	0.004	mg/L	EPA 200.8
Zinc	0.0028	mg/L	EPA 200.8

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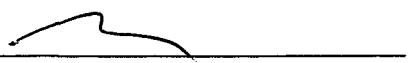
10/10/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples (September)
Client ID: TSM0911106
Sample Matrix: Water
Date Sampled: 09/06/2011
Date Received: 10/03/2011
Spectra Project: 2011100068
Spectra Number: 2

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.089	mg/L	EPA 200.8
Copper	0.031	mg/L	EPA 200.8
Zinc	0.018	mg/L	EPA 200.8

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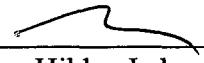
10/10/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples (September)
Client ID: TSM0911412
Sample Matrix: Water
Date Sampled: 09/12/2011
Date Received: 10/03/2011
Spectra Project: 2011100068
Spectra Number: 3

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.018	mg/L	EPA 200.8
Copper	0.0048	mg/L	EPA 200.8
Zinc	0.0033	mg/L	EPA 200.8

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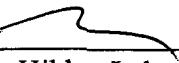
10/10/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples (September)
Client ID: TSM0911112
Sample Matrix: Water
Date Sampled: 09/12/2011
Date Received: 10/03/2011
Spectra Project: 2011100068
Spectra Number: 4

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.072	mg/L	EPA 200.8
Copper	0.012	mg/L	EPA 200.8
Zinc	0.0062	mg/L	EPA 200.8

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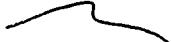
10/10/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples (September)
Client ID: TSM0911419
Sample Matrix: Water
Date Sampled: 09/19/2011
Date Received: 10/03/2011
Spectra Project: 2011100068
Spectra Number: 5

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.018	mg/L	EPA 200.8
Copper	0.0078	mg/L	EPA 200.8
Zinc	0.0055	mg/L	EPA 200.8

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Point Ruston
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Suite 100
Tacoma, WA 98407

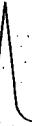
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Client ID: TSM0911119
Sample Matrix: Water
Date Sampled: 09/19/2011
Date Received: 10/03/2011
Spectra Project: 2011100068
Spectra Number: 6

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.053	mg/L	EPA 200.8
Copper	0.011	mg/L	EPA 200.8
Zinc	0.0037	mg/L	EPA 200.8

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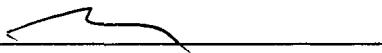
10/10/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples (September)
Client ID: TSM0911426
Sample Matrix: Water
Date Sampled: 09/26/2011
Date Received: 10/03/2011
Spectra Project: 2011100068
Spectra Number: 7

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.017	mg/L	EPA 200.8
Copper	0.0054	mg/L	EPA 200.8
Zinc	0.0036	mg/L	EPA 200.8

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Point Ruston
5219 N. Shirley St.,
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Tacoma, WA 98407

Project: Outfall Samples (September)
Client ID: TSM0911126
Sample Matrix: Water
Date Sampled: 09/26/2011
Date Received: 10/03/2011
Spectra Project: 2011100068
Spectra Number: 8

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.046	mg/L	EPA 200.8
Copper	0.0094	mg/L	EPA 200.8
Zinc	0.0038	mg/L	EPA 200.8

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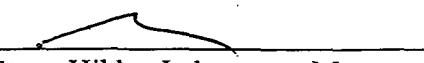
10/10/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples (September)
Client ID: TSM1011403
Sample Matrix: Water
Date Sampled: 10/03/2011
Date Received: 10/03/2011
Spectra Project: 2011100068
Spectra Number: 9

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.019	mg/L	EPA 200.8
Copper	0.0076	mg/L	EPA 200.8
Zinc	0.0056	mg/L	EPA 200.8

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10/10/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples (September)
Client ID: TSM1011103
Sample Matrix: Water
Date Sampled: 10/03/2011
Date Received: 10/03/2011
Spectra Project: 2011100068
Spectra Number: 10

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	0.046	mg/L	EPA 200.8
Copper	0.015	mg/L	EPA 200.8
Zinc	0.019	mg/L	EPA 200.8

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October 10, 2011

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2011100068
Applies to Spectra #'s 1 thru 10

QUALITY CONTROL RESULTS ICP-MS Metals - EPA Method 200.8 - Water

Method Blank

Date Digested: 10/10/2011 Date Analyzed: 10/10/2011

Element	CAS #	Blank Result
Arsenic	7440-38-2	< 0.5
Copper	7440-50-8	< 0.5
Zinc	7440-66-6	< 0.5

Blank Spike (LCS)

Date Digested: 10/10/2011 Date Analyzed: 10/10/2011

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	50.0	50.77	101.5
Copper	50.0	52.15	104.3
Zinc	50.0	54.03	108.1

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Date Digested: 10/10/2011 Date Analyzed: 10/10/2011
Sample Spiked: 2011100042-1

Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc	MSD %Rec	RPD
Arsenic	0.63	50.0	53.52	105.8	52.66	104.1	1.6
Copper	7.35	50.0	59.90	105.1	58.75	102.8	2.2
Zinc	31.76	50.0	85.24	107.0	84.01	104.5	2.3

Recovery Limits 70-130%

RPD Limit 20

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Steven G. Hibbs
Laboratory Manager

CHAIN OF CUSTODY RECORD

2011100608

PROJ. NO TACOMA SMELTER	PROJECT NAME OUTFALL SAMPLES	(September)	NO. OF CONTAINERS	REMARKS				
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER	NO. OF CONTAINERS	REMARKS	
9/16/11	NORTH	9:42			TSM0911406	1	X	
9/16/11	SOUTH	9:30			TSM0911106	1	X	
9/12/11	NORTH	14:06			TSM0911412	1	X	
9/12/11	SOUTH	13:28			TSM0911112	1	X	
9/19/11	NORTH	8:08			TSM0911419	1	X	
9/19/11	SOUTH	8:18			TSM0911119	1	X	
9/20/11	NORTH	8:17			TSM0911426	1	X	
9/20/11	SOUTH	9:02			TSM0911126	1	X	
10/3/11	NORTH	8:24			TSM1011403	1	X	
10/3/11	SOUTH	8:41			TSM1011103	1	X	
<i>PLEASE EMAIL RESULTS TO: Tim2@POINTRUSTON.com</i>								
<i>THANK YOU</i>								
Relinquished (Signature) <i>[Signature]</i>	Date/Time 10/3/11 0145	Received by (Signature) <i>[Signature]</i>	Lab SPECTRA	Shipped via: FedEx, UPS or Other Drop Off Air Bill # _____				
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks					
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter				
					Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____			